



DATA VALIDATION REPORT

Gold King Mine Release Incident

SAMPLE DELIVERY GROUP: 680-116122-1

Prepared by

MEC^X
12269 East Vassar Drive
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I. INTRODUCTION

Task Order Title: Gold King Mine Release Incident
Project No.: 20408.012.001.0267.00
Sample Delivery Group: 680-116122-1
EPA Project Manager: Steve Way
Weston Project Manager: Dave Robinson
TDD No.: 0001/1508-04
Matrix: Water
QC Level: Stage 2A
No. of Samples: 11
No. of Reanalyses/Dilutions: 0
Laboratory: TestAmerica - Savannah

Table 1. Sample Identification

<i>Location ID</i>	<i>Lab Sample Name</i>	<i>Matrix Type</i>	<i>Collection Date</i>	<i>Method</i>
A68_082615	680-116122-4	Water	08/26/2015 12:30	200.7, 200.8, 2320B, 2340B, 245.1, 300.0, 4500H
A68_082615D	680-116122-7	Water	08/26/2015 12:30	200.7, 200.8, 2320B, 2340B, 245.1, 300.0, 4500H
A72_082615	680-116122-5	Water	08/26/2015 13:45	200.7, 200.8, 2320B, 2340B, 245.1, 300.0, 4500H
CC06_082615	680-116122-2	Water	08/26/2015 08:20	200.7, 200.8, 2320B, 2340B, 245.1, 300.0, 4500H
CC48_082615	680-116122-8	Water	08/26/2015 13:10	200.7, 200.8, 2320B, 2340B, 245.1, 300.0, 4500H
GKMSW01_082715	680-116122-9	Water	08/27/2015 08:45	200.7, 200.8, 2320B, 2340B, 245.1, 300.0, 4500H
GKMSW02_082615	680-116122-6	Water	08/26/2015 11:10	200.7, 200.8, 2320B, 2340B, 245.1, 300.0, 4500H
GKMSW04_082715	680-116122-10	Water	08/27/2015 09:40	200.7, 200.8, 2320B, 2340B, 245.1, 300.0, 4500H
GKMSW05_082715	680-116122-11	Water	08/27/2015 09:10	200.7, 200.8, 2320B, 2340B, 245.1, 300.0, 4500H
RBEffluent_082615	680-116122-1	Water	08/26/2015 12:53	200.7, 200.8, 2320B, 2340B, 245.1, 300.0, 4500H
TP04_082615	680-116122-3	Water	08/26/2015 10:03	200.7, 200.8, 2320B, 2340B, 245.1, 300.0, 4500H



II. Sample Management

Anomalies regarding sample management were not observed, with several exceptions listed below. The samples were received within the temperature limits of 4°C \pm 2°C. The samples were received intact, on ice, and properly preserved, as applicable. The chains-of-custody (COCs) were appropriately signed and dated by field and laboratory personnel. The presence or absence of custody seals on the cooler was not specifically noted.

- Corrections made to the COCs by the sampler were made by overwriting the original entries. These corrections were not initialed or dated.
- Although the name of the electronic data package file indicated the data were final, the case narrative indicated the data for several samples was preliminary. A revised data package was issued 9/17/2015 and, as per the case narrative, the results in the revised data package were final.
- The COCs did not list CLP sample IDs, and none were provided. The laboratory logged the samples per the location IDs on the COCs.
- The presence or absence of sample tags was not noted in the case narrative, and sample tags were not listed on the COCs.

**Data Qualifier Reference Table**

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins or PCB congeners.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
UB	The analyte was detected in the sample below the reporting limit (RL) and in either the associated laboratory blank or field blank; the analyte result was reported as non-detected at the RL due to blank contamination.	The analyte was detected in the sample below the reporting limit (RL) and in either the associated laboratory blank or field blank; the analyte result was reported as non-detected at the RL due to blank contamination.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+	Not applicable	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, and may have a potential positive bias.
J-	Not applicable	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, and may have a potential negative bias.
UU	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.



Qualifier	Organics	Inorganics
UJB	The analyte was detected in the sample below the reporting limit and in either the associated laboratory blank or field blank; the analyte result was reported as non-detected at the RL due to blank contamination. The reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The analyte was detected in the sample below the reporting limit and in either the associated laboratory blank or field blank; the analyte result was reported as non-detected at the RL due to blank contamination. The reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.



Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995 or calibration was noncompliant.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
L1	LCS/LCSD RPD was outside control limits.	LCS/LCSD RPD was outside control limits.
Q	MS/MSD recovery was poor.	MS recovery was poor.
Q1	MS/MSD RPD was outside control limits.	MS/MSD RPD was outside control limits.
E	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	ICPMS tune was not compliant.
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	Not applicable.
-	False negative – compound was present but not reported.	Not applicable.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
F1	Field duplicate results were outside the control limit.	Field duplicate results were outside the control limit.
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.



Qualifier	Organics	Inorganics
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.

III. Method Analyses

A. Contract Laboratory Program Statement of Work for Inorganic Superfund Methods, 200.7, 200.8, 245.1— Metals and Mercury

Reviewed By: P. Meeks

Date Reviewed: August 31, 2015

The samples listed in Table 1 for these analyses were validated based on the guidelines outlined in the *Quality Assurance Project Plan for U. S. EPA Region 8 CERCLA Site Assessment* (2013), *United States Environmental Protection Agency Contract Laboratory Program Statement of Work for Inorganic Superfund Methods, EPA Methods 200.7, 200.8, 245.1*, and the *National Functional Guidelines for Inorganic Superfund Data Review* (2010).

- Holding Times: The analytical holding times, 28 days for mercury and six months for the remaining metals, was met.
- Analytical Method Blanks: Results above the reporting limit (RL) were qualified as estimated with a potential high bias (J+). The remaining results in the table below were qualified as nondetected (UB) at the reporting limits. There were no other detects reported in the method blanks.

Analyte	Method Blank (µg/L)	Qualified Samples
Vanadium (dissolved)	0.773	All results
Zinc (dissolved)	11.2	GKMSW04_082715, GKMSW05_082715, GKMSW01_082715
Vanadium (total)398600	0.730	GKMSW04_082715, GKMSW05_082715, A68_082615, A72_082615, GKMSW02_082615, A68_082615D, GKMSW01_082715

- Laboratory Control Samples (LCS): Zinc (dissolved) was recovered at 140%; therefore, all results for this analyte were qualified as estimated with a potential high bias (J+). The remaining LCS recoveries were within laboratory control limits of 85-115%.
- Laboratory Duplicates: Laboratory duplicate analyses performed on sample GKMSW01_082715 for all total and dissolved analytes. The total results for aluminum (200%), iron (200%), copper (±RL), lead (195%), manganese (86%), thallium (±RL), vanadium (±RL), and zinc (99%) exceeded the control limits; therefore, all total results for these analytes were qualified as estimated (J or UJ). The dissolved results for aluminum (±RL), iron (±RL), cobalt (±RL), copper (±RL), manganese (80%), lead (±RL), thallium

(\pm RL), and zinc (77%) exceeded the control limits; therefore, all dissolved results for these analytes were qualified as estimated (J, UJ, or UJB). The remaining results were within the control limits of relative percent differences (RPDs) $\leq 20\%$ for results $>5\times$ the RL and within \pm RL for results $<5\times$ the RL. Method precision was evaluated based on matrix spike/matrix spike duplicate analyses results.

- Matrix Spike/Matrix Spike Duplicate (MS/MSD): MS/MSD analyses were performed on the samples listed in the table below.

Parent Sample	MS/MSD Analytes
A68_082615	All total analytes
GKMSW01_082715	All total and dissolved analytes
RBEffluent_082615	200.7 (dissolved), 200.8 (dissolved)

Results were not assessed when the native concentration was more than $4\times$ the spike amount. Results listed in the table below associated with high recoveries were qualified as estimated with a potential high bias (J+) and results associated with low recoveries were qualified as estimated with a potential low bias (J-) for detects and as estimated (UJ) for nondetects. Nondetects were not qualified for high recoveries. Parent samples (and their field duplicates) were qualified only for their own outliers. The remaining aqueous recoveries were within the laboratory control limits of 75-125% for the 200.7 analytes and within 70-130% for mercury and the 200.8 analytes. RPDs were $\leq 20\%$.

Parent Sample	Analyte	MS %R	MSD %R	Qualified Samples
GKMSW01_082715	Iron (total)	52%	54%	All results except A68_082615 and A68_082615D
	Zinc (total)	16%	15%	
	Iron (dissolved)	149%	141%	All results except RBEffluent_082615
	Manganese (dissolved)	134%	--	
	Zinc (dissolved)	184%	169%	
RBEffluent_082615	Potassium (dissolved)	130%	156%	All results except GKMSW01_082715
	Sodium (dissolved)	--	153%	

- Post Digestion Spike (PDS): There were no PDS analyses performed on a sample in this SDG.
- Serial Dilution: There were no serial dilution analyses performed in this SDG.



- **Field QC Samples:** Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - **Field Blanks and Equipment Rinsates:** No field blank or equipment rinsate samples were identified in this SDG.
 - **Field Duplicates:** Samples A68_082615 and A68_082615D were identified as field duplicate samples. The RPD for dissolved cobalt was 74%; therefore, dissolved cobalt detected in the parent and duplicate samples were qualified as estimated (J). The remaining RPDs for results above the RL were within the reasonable control limit of $\leq 30\%$ and the remaining results below the RL were within $\pm RL$.

B. VARIOUS METHODS—General Minerals

Reviewed By: P. Meeks

Date Reviewed: August 30, 2015

The samples listed in Table 1 for these analyses were validated based on the guidelines outlined in the *Quality Assurance Project Plan for U. S. EPA Region 8 CERCLA Site Assessment* (2013), *United States Environmental Protection Agency Contract Laboratory Program Statement of Work for Inorganic Superfund Methods, Standard Methods for the Examination of Water and Wastewater 2320B, 2340B, 4500 H+, EPA Method 300.0* and the *National Functional Guidelines for Superfund Inorganic Data Review* (2010).

- **Holding Times:** Nitrate-N was analyzed beyond the holding time in sample CC06_082615; therefore, nondetected nitrate-N in the sample was qualified as estimated (UJ). The pH measurements were performed in a fixed laboratory rather than on-site; therefore, all pH results were qualified as estimated (J), as the analysis was not conducted in the field. No bias was assigned as the effect of the holding time exceedance could not be ascertained.

The remaining analytical holding times, as listed below, were met.

- Hardness (2340B) – 6 months
 - Alkalinity (2320B) – 14 days
 - Nitrate-N (300.0) - 48 hours
 - Remaining anions (300.0) – 28 days
 - pH (4500 H+) – as soon as possible
- **Analytical Method Blanks:** Alkalinity, anions, and the analytes utilized in the calculation of hardness were not detected in the method blanks.



- **Laboratory Control Samples:** The analytes utilized in the calculation of hardness were recovered within the metals control limits. The pH recovery was within the laboratory control limits of 63-158% and within the EPA Method 150.1 check standard control limit of ± 0.05 pH units. Alkalinity recoveries were within the laboratory control limits of 80-120%, anion recoveries were within the laboratory control limits of 90-110%, and alkalinity and anion RPDs were $\leq 30\%$.
- **Laboratory Duplicates:** Laboratory duplicate analyses were performed on sample GKMSW01_082715 for the pH, anions, and alkalinity, A72_082615 for alkalinity and pH, and A68_082615D for chloride, fluoride, and sulfate. The pH RPDs were within the laboratory control limit of $\leq 40\%$ and the duplicate result for sample A72_082615 was within the EPA Method 150.1 check standard control limit of 0.05 pH units. The duplicate result for sample GKMSW01_082715 exceeded this control limit at +0.09 pH units; therefore, the pH results for all samples except A72_082615 were qualified as estimated (J). The RPDs for the remaining analytes were within the laboratory control limit of $\leq 30\%$.
- **Matrix Spike:** MS/MSD analyses are only applicable to the anions. MS/MSD analyses were performed on sample GKMSW01_082715 for the anions and A68_082615D for chloride, fluoride, and sulfate. Recoveries and RPDs were within the laboratory control limits of 80-120% and $\leq 20\%$, respectively.
- **Field QC Samples:** Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - **Field Blanks and Equipment Rinsates:** There were no field blanks or equipment rinsates identified in this SDG.
 - **Field Duplicates:** Samples A68_082615 and A68_082615D were identified as field duplicate samples. The pH results were within the EPA Method 150.1 check standard control limit of ± 0.05 pH units. The RPDs for results above the RL were within the reasonable control limit of $\leq 30\%$ and the results below the RL were within $\pm RL$.

Validated Sample Result Forms: 680-116122-1

Analysis Method 200.7 Rev 4.4

Sample Name RBEffluent_082615

Matrix Type: Water

Lab Sample Name: 680-116122-1

Sample Date: 08/26/2015 12:53

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	TOTAL	7429-90-5	29000	200	24	ug/L		J	E
Aluminum, Dissolved	DISSOLVED	7429-90-5	28000	200	24	ug/L		J	E
Calcium	TOTAL	7440-70-2	360000	5000	250	ug/L			
Calcium, Dissolved	DISSOLVED	7440-70-2	350000	5000	250	ug/L			
Iron	TOTAL	7439-89-6	91000	50	17	ug/L		J-	E, Q
Iron, Dissolved	DISSOLVED	7439-89-6	59000	50	17	ug/L		J	E
Magnesium	TOTAL	7439-95-4	32000	5000	330	ug/L			
Magnesium, Dissolved	DISSOLVED	7439-95-4	31000	5000	330	ug/L			
Potassium	TOTAL	7440-09-7	2500	1000	17	ug/L			
Potassium, Dissolved	DISSOLVED	7440-09-7	2400	1000	17	ug/L	F1	J+	Q
Sodium	TOTAL	7440-23-5	600	1000	480	ug/L	J	J	
Sodium, Dissolved	DISSOLVED	7440-23-5	620	1000	480	ug/L	J	J+	Q

Sample Name GKMSW04_082715

Matrix Type: Water

Lab Sample Name: 680-116122-10

Sample Date: 08/27/2015 09:40

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	TOTAL	7429-90-5	130	200	24	ug/L	J	J	E
Aluminum, Dissolved	DISSOLVED	7429-90-5	24	200	24	ug/L	U	UJ	E
Calcium	TOTAL	7440-70-2	89000	500	25	ug/L			
Calcium, Dissolved	DISSOLVED	7440-70-2	84000	500	25	ug/L			
Iron	TOTAL	7439-89-6	330	50	17	ug/L		J-	E, Q
Iron, Dissolved	DISSOLVED	7439-89-6	17	50	17	ug/L	U	UJ	E
Magnesium	TOTAL	7439-95-4	12000	500	33	ug/L			
Magnesium, Dissolved	DISSOLVED	7439-95-4	11000	500	33	ug/L			
Potassium	TOTAL	7440-09-7	4100	1000	17	ug/L			
Potassium, Dissolved	DISSOLVED	7440-09-7	4000	1000	17	ug/L		J+	Q
Sodium	TOTAL	7440-23-5	24000	1000	480	ug/L			
Sodium, Dissolved	DISSOLVED	7440-23-5	24000	1000	480	ug/L		J+	Q

Analysis Method 200.7 Rev 4.4

Sample Name GKMSW05_082715 **Matrix Type:** Water
Lab Sample Name: 680-116122-11 **Sample Date:** 08/27/2015 09:10

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	TOTAL	7429-90-5	150	200	24	ug/L	J	J	E
Aluminum, Dissolved	DISSOLVED	7429-90-5	24	200	24	ug/L	U	UJ	E
Calcium	TOTAL	7440-70-2	82000	500	25	ug/L			
Calcium, Dissolved	DISSOLVED	7440-70-2	83000	500	25	ug/L			
Iron	TOTAL	7439-89-6	340	50	17	ug/L		J-	E, Q
Iron, Dissolved	DISSOLVED	7439-89-6	17	50	17	ug/L	U	UJ	E
Magnesium	TOTAL	7439-95-4	11000	500	33	ug/L			
Magnesium, Dissolved	DISSOLVED	7439-95-4	11000	500	33	ug/L			
Potassium	TOTAL	7440-09-7	3800	1000	17	ug/L			
Potassium, Dissolved	DISSOLVED	7440-09-7	3900	1000	17	ug/L		J+	Q
Sodium	TOTAL	7440-23-5	22000	1000	480	ug/L			
Sodium, Dissolved	DISSOLVED	7440-23-5	23000	1000	480	ug/L		J+	Q

Sample Name CC06_082615 **Matrix Type:** Water
Lab Sample Name: 680-116122-2 **Sample Date:** 08/26/2015 08:20

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	TOTAL	7429-90-5	30000	200	24	ug/L		J	E
Aluminum, Dissolved	DISSOLVED	7429-90-5	30000	200	24	ug/L		J	E
Calcium	TOTAL	7440-70-2	340000	5000	250	ug/L			
Calcium, Dissolved	DISSOLVED	7440-70-2	370000	5000	250	ug/L			
Iron	TOTAL	7439-89-6	120000	50	17	ug/L		J-	E, Q
Iron, Dissolved	DISSOLVED	7439-89-6	100000	50	17	ug/L		J+	E, Q
Magnesium	TOTAL	7439-95-4	23000	5000	330	ug/L			
Magnesium, Dissolved	DISSOLVED	7439-95-4	25000	5000	330	ug/L			
Potassium	TOTAL	7440-09-7	2400	1000	17	ug/L			
Potassium, Dissolved	DISSOLVED	7440-09-7	2600	1000	17	ug/L		J+	Q
Sodium	TOTAL	7440-23-5	480	1000	480	ug/L	U	U	
Sodium, Dissolved	DISSOLVED	7440-23-5	480	1000	480	ug/L	U	U	

Sample Name TP04_082615 **Matrix Type:** Water
Lab Sample Name: 680-116122-3 **Sample Date:** 08/26/2015 10:03

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	TOTAL	7429-90-5	25000	200	24	ug/L		J	E

Analysis Method 200.7 Rev 4.4

Aluminum, Dissolved	DISSOLVED	7429-90-5	26000	200	24	ug/L	J	E
Calcium	TOTAL	7440-70-2	330000	500	25	ug/L		
Calcium, Dissolved	DISSOLVED	7440-70-2	330000	500	25	ug/L		
Iron	TOTAL	7439-89-6	47000	50	17	ug/L	J-	E, Q
Iron, Dissolved	DISSOLVED	7439-89-6	39000	50	17	ug/L	J+	E, Q
Magnesium	TOTAL	7439-95-4	33000	500	33	ug/L		
Magnesium, Dissolved	DISSOLVED	7439-95-4	34000	500	33	ug/L		
Potassium	TOTAL	7440-09-7	2000	1000	17	ug/L		
Potassium, Dissolved	DISSOLVED	7440-09-7	2100	1000	17	ug/L	J+	Q
Sodium	TOTAL	7440-23-5	16000	1000	480	ug/L		
Sodium, Dissolved	DISSOLVED	7440-23-5	17000	1000	480	ug/L	J+	Q

Sample Name A68_082615

Matrix Type: Water

Lab Sample Name: 680-116122-4

Sample Date: 08/26/2015 12:30

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	TOTAL	7429-90-5	95	200	24	ug/L	J	J	E
Aluminum, Dissolved	DISSOLVED	7429-90-5	58	200	24	ug/L	J	J	E
Calcium	TOTAL	7440-70-2	50000	500	25	ug/L			
Calcium, Dissolved	DISSOLVED	7440-70-2	51000	500	25	ug/L			
Iron	TOTAL	7439-89-6	170	50	17	ug/L		J	E
Iron, Dissolved	DISSOLVED	7439-89-6	18	50	17	ug/L	J	J+	E, Q
Magnesium	TOTAL	7439-95-4	3000	500	33	ug/L			
Magnesium, Dissolved	DISSOLVED	7439-95-4	3000	500	33	ug/L			
Potassium	TOTAL	7440-09-7	640	1000	17	ug/L	J	J	
Potassium, Dissolved	DISSOLVED	7440-09-7	640	1000	17	ug/L	J	J+	Q
Sodium	TOTAL	7440-23-5	2100	1000	480	ug/L			
Sodium, Dissolved	DISSOLVED	7440-23-5	2100	1000	480	ug/L		J+	Q

Sample Name A72_082615

Matrix Type: Water

Lab Sample Name: 680-116122-5

Sample Date: 08/26/2015 13:45

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	TOTAL	7429-90-5	1900	200	24	ug/L		J	E
Aluminum, Dissolved	DISSOLVED	7429-90-5	150	200	24	ug/L	J	J	E
Calcium	TOTAL	7440-70-2	74000	500	25	ug/L			
Calcium, Dissolved	DISSOLVED	7440-70-2	74000	500	25	ug/L			
Iron	TOTAL	7439-89-6	3100	50	17	ug/L		J-	E, Q
Iron, Dissolved	DISSOLVED	7439-89-6	750	50	17	ug/L		J+	E, Q
Magnesium	TOTAL	7439-95-4	5100	500	33	ug/L			

Analysis Method 200.7 Rev 4.4

Magnesium, Dissolved	DISSOLVED	7439-95-4	5100	500	33	ug/L			
Potassium	TOTAL	7440-09-7	860	1000	17	ug/L	J	J	
Potassium, Dissolved	DISSOLVED	7440-09-7	870	1000	17	ug/L	J	J+	Q
Sodium	TOTAL	7440-23-5	2900	1000	480	ug/L			
Sodium, Dissolved	DISSOLVED	7440-23-5	2900	1000	480	ug/L		J+	Q

Sample Name GKMSW02_082615 **Matrix Type:** Water

Lab Sample Name: 680-116122-6 **Sample Date:** 08/26/2015 11:10

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	TOTAL	7429-90-5	630	200	24	ug/L		J	E
Aluminum, Dissolved	DISSOLVED	7429-90-5	60	200	24	ug/L	J	J	E
Calcium	TOTAL	7440-70-2	52000	500	25	ug/L			
Calcium, Dissolved	DISSOLVED	7440-70-2	52000	500	25	ug/L			
Iron	TOTAL	7439-89-6	890	50	17	ug/L		J-	E, Q
Iron, Dissolved	DISSOLVED	7439-89-6	26	50	17	ug/L	J	J+	E, Q
Magnesium	TOTAL	7439-95-4	5100	500	33	ug/L			
Magnesium, Dissolved	DISSOLVED	7439-95-4	5100	500	33	ug/L			
Potassium	TOTAL	7440-09-7	900	1000	17	ug/L	J	J	
Potassium, Dissolved	DISSOLVED	7440-09-7	910	1000	17	ug/L	J	J+	Q
Sodium	TOTAL	7440-23-5	2500	1000	480	ug/L			
Sodium, Dissolved	DISSOLVED	7440-23-5	2600	1000	480	ug/L		J+	Q

Sample Name A68_082615D **Matrix Type:** Water

Lab Sample Name: 680-116122-7 **Sample Date:** 08/26/2015 12:30

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	TOTAL	7429-90-5	96	200	24	ug/L	J	J	E
Aluminum, Dissolved	DISSOLVED	7429-90-5	53	200	24	ug/L	J	J	E
Calcium	TOTAL	7440-70-2	51000	500	25	ug/L			
Calcium, Dissolved	DISSOLVED	7440-70-2	50000	500	25	ug/L			
Iron	TOTAL	7439-89-6	170	50	17	ug/L		J	E
Iron, Dissolved	DISSOLVED	7439-89-6	17	50	17	ug/L	U	UJ	E
Magnesium	TOTAL	7439-95-4	3100	500	33	ug/L			
Magnesium, Dissolved	DISSOLVED	7439-95-4	3000	500	33	ug/L			
Potassium	TOTAL	7440-09-7	650	1000	17	ug/L	J	J	
Potassium, Dissolved	DISSOLVED	7440-09-7	640	1000	17	ug/L	J	J+	Q
Sodium	TOTAL	7440-23-5	2100	1000	480	ug/L			
Sodium, Dissolved	DISSOLVED	7440-23-5	2200	1000	480	ug/L		J+	Q

Analysis Method 200.7 Rev 4.4

Sample Name		CC48_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-8		Sample Date:		08/26/2015 13:10			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	TOTAL	7429-90-5	7900	200	24	ug/L		J	E
Aluminum, Dissolved	DISSOLVED	7429-90-5	7700	200	24	ug/L		J	E
Calcium	TOTAL	7440-70-2	180000	500	25	ug/L			
Calcium, Dissolved	DISSOLVED	7440-70-2	180000	500	25	ug/L			
Iron	TOTAL	7439-89-6	14000	50	17	ug/L		J-	E, Q
Iron, Dissolved	DISSOLVED	7439-89-6	6700	50	17	ug/L		J+	E, Q
Magnesium	TOTAL	7439-95-4	11000	500	33	ug/L			
Magnesium, Dissolved	DISSOLVED	7439-95-4	11000	500	33	ug/L			
Potassium	TOTAL	7440-09-7	2000	1000	17	ug/L			
Potassium, Dissolved	DISSOLVED	7440-09-7	1900	1000	17	ug/L		J+	Q
Sodium	TOTAL	7440-23-5	4200	1000	480	ug/L			
Sodium, Dissolved	DISSOLVED	7440-23-5	4200	1000	480	ug/L		J+	Q

Sample Name		GKMSW01_082715					Matrix Type: Water		
Lab Sample Name:		680-116122-9		Sample Date:		08/27/2015 08:45			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	TOTAL	7429-90-5	540	200	24	ug/L		J	E
Aluminum, Dissolved	DISSOLVED	7429-90-5	24	200	24	ug/L	U	UJ	E
Calcium	TOTAL	7440-70-2	84000	500	25	ug/L			
Calcium, Dissolved	DISSOLVED	7440-70-2	82000	500	25	ug/L			
Iron	TOTAL	7439-89-6	990	50	17	ug/L	F1	J-	E, Q
Iron, Dissolved	DISSOLVED	7439-89-6	17	50	17	ug/L	U F1	UJ	E
Magnesium	TOTAL	7439-95-4	12000	500	33	ug/L			
Magnesium, Dissolved	DISSOLVED	7439-95-4	12000	500	33	ug/L			
Potassium	TOTAL	7440-09-7	4100	1000	17	ug/L			
Potassium, Dissolved	DISSOLVED	7440-09-7	3900	1000	17	ug/L			
Sodium	TOTAL	7440-23-5	23000	1000	480	ug/L			
Sodium, Dissolved	DISSOLVED	7440-23-5	23000	1000	480	ug/L			

Analysis Method 200.8

Sample Name		RBEffluent_082615					Matrix Type: Water		
Lab Sample Name:		680-116122-1		Sample Date: 08/26/2015 12:53					
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	TOTAL	7440-36-0	1.5	1.0	0.40	ug/L			
Antimony, Dissolved	DISSOLVED	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Arsenic	TOTAL	7440-38-2	23	5.0	1.9	ug/L			
Arsenic, Dissolved	DISSOLVED	7440-38-2	1.9	5.0	1.9	ug/L	U	U	
Barium	TOTAL	7440-39-3	8.5	2.0	0.14	ug/L			
Barium, Dissolved	DISSOLVED	7440-39-3	8.8	2.0	0.14	ug/L			
Beryllium	TOTAL	7440-41-7	8.1	0.40	0.15	ug/L			
Beryllium, Dissolved	DISSOLVED	7440-41-7	8.7	0.40	0.15	ug/L			
Cadmium	TOTAL	7440-43-9	62	0.50	0.043	ug/L			
Cadmium, Dissolved	DISSOLVED	7440-43-9	71	0.50	0.043	ug/L			
Chromium	TOTAL	7440-47-3	3.1	2.0	1.0	ug/L			
Chromium, Dissolved	DISSOLVED	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Cobalt	TOTAL	7440-48-4	110	0.40	0.12	ug/L			
Cobalt, Dissolved	DISSOLVED	7440-48-4	110	0.40	0.12	ug/L		J	E
Copper	TOTAL	7440-50-8	5300	1.0	0.50	ug/L	E	J	E
Copper, Dissolved	DISSOLVED	7440-50-8	5300	1.0	0.50	ug/L	E	J	E
Lead	TOTAL	7439-92-1	41	0.30	0.060	ug/L		J	E
Lead, Dissolved	DISSOLVED	7439-92-1	19	0.30	0.060	ug/L		J	E
Manganese	TOTAL	7439-96-5	33000	2.5	1.2	ug/L	E	J	E
Manganese, Dissolved	DISSOLVED	7439-96-5	33000	2.5	1.2	ug/L	E	J	E
Molybdenum	TOTAL	7439-98-7	2.2	1.0	0.45	ug/L			
Molybdenum, Dissolved	DISSOLVED	7439-98-7	0.45	1.0	0.45	ug/L	U	U	
Nickel	TOTAL	7440-02-0	66	1.0	0.40	ug/L			
Nickel, Dissolved	DISSOLVED	7440-02-0	66	1.0	0.40	ug/L			
Selenium	TOTAL	7782-49-2	4.6	10	2.9	ug/L	J	J	
Selenium, Dissolved	DISSOLVED	7782-49-2	2.9	10	2.9	ug/L	U	U	
Silver	TOTAL	7440-22-4	0.13	1.0	0.10	ug/L	J	J	
Silver, Dissolved	DISSOLVED	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Thallium	TOTAL	7440-28-0	0.44	0.20	0.10	ug/L		J	E
Thallium, Dissolved	DISSOLVED	7440-28-0	0.31	0.20	0.10	ug/L		J	E
Vanadium	TOTAL	7440-62-2	15	1.0	0.30	ug/L	B	J	E
Vanadium, Dissolved	DISSOLVED	7440-62-2	1.0	1.0	0.30	ug/L	J B	UB	B
Zinc	TOTAL	7440-66-6	24000	20	2.8	ug/L	E	J	E, Q
Zinc, Dissolved	DISSOLVED	7440-66-6	24000	20	2.8	ug/L	E B *	J+	L, E

Analysis Method 200.8

Sample Name		GKMSW04_082715				Matrix Type: Water			
Lab Sample Name:		680-116122-10		Sample Date:		08/27/2015 09:40			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	TOTAL	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Antimony, Dissolved	DISSOLVED	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Arsenic	TOTAL	7440-38-2	1.1	1.0	0.37	ug/L			
Arsenic, Dissolved	DISSOLVED	7440-38-2	0.65	1.0	0.37	ug/L	J	J-	Q
Barium	TOTAL	7440-39-3	60	2.0	0.14	ug/L			
Barium, Dissolved	DISSOLVED	7440-39-3	58	2.0	0.14	ug/L			
Beryllium	TOTAL	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Beryllium, Dissolved	DISSOLVED	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Cadmium	TOTAL	7440-43-9	0.20	0.50	0.043	ug/L	J	J	
Cadmium, Dissolved	DISSOLVED	7440-43-9	0.19	0.50	0.043	ug/L	J	J	
Chromium	TOTAL	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Chromium, Dissolved	DISSOLVED	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Cobalt	TOTAL	7440-48-4	0.36	0.40	0.12	ug/L	J	J	
Cobalt, Dissolved	DISSOLVED	7440-48-4	1.2	0.40	0.12	ug/L		J	E
Copper	TOTAL	7440-50-8	2.5	1.0	0.50	ug/L		J	E
Copper, Dissolved	DISSOLVED	7440-50-8	0.83	1.0	0.50	ug/L	J	J	E
Lead	TOTAL	7439-92-1	3.3	0.30	0.060	ug/L		J	E
Lead, Dissolved	DISSOLVED	7439-92-1	0.060	0.30	0.060	ug/L	U	UJ	E
Manganese	TOTAL	7439-96-5	120	2.5	1.2	ug/L		J	E
Manganese, Dissolved	DISSOLVED	7439-96-5	100	2.5	1.2	ug/L		J+	E, Q
Molybdenum	TOTAL	7439-98-7	1.1	1.0	0.45	ug/L			
Molybdenum, Dissolved	DISSOLVED	7439-98-7	1.1	1.0	0.45	ug/L			
Nickel	TOTAL	7440-02-0	2.8	1.0	0.40	ug/L			
Nickel, Dissolved	DISSOLVED	7440-02-0	2.7	1.0	0.40	ug/L			
Selenium	TOTAL	7782-49-2	0.58	2.0	0.58	ug/L	U	U	
Selenium, Dissolved	DISSOLVED	7782-49-2	0.58	2.0	0.58	ug/L	U	UJ	Q
Silver	TOTAL	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Silver, Dissolved	DISSOLVED	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Thallium	TOTAL	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Thallium, Dissolved	DISSOLVED	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Vanadium	TOTAL	7440-62-2	1.0	1.0	0.30	ug/L	B	J+	B, E
Vanadium, Dissolved	DISSOLVED	7440-62-2	1.0	1.0	0.30	ug/L	B	J+	B
Zinc	TOTAL	7440-66-6	58	20	2.8	ug/L		J	E, Q
Zinc, Dissolved	DISSOLVED	7440-66-6	47	20	2.8	ug/L	B *	J+	B, L, E

Analysis Method 200.8

Sample Name		GKMSW05_082715				Matrix Type: Water			
Lab Sample Name:		680-116122-11		Sample Date:		08/27/2015 09:10			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	TOTAL	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Antimony, Dissolved	DISSOLVED	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Arsenic	TOTAL	7440-38-2	1.1	1.0	0.37	ug/L			
Arsenic, Dissolved	DISSOLVED	7440-38-2	0.73	1.0	0.37	ug/L	J	J-	Q
Barium	TOTAL	7440-39-3	61	2.0	0.14	ug/L			
Barium, Dissolved	DISSOLVED	7440-39-3	59	2.0	0.14	ug/L			
Beryllium	TOTAL	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Beryllium, Dissolved	DISSOLVED	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Cadmium	TOTAL	7440-43-9	0.19	0.50	0.043	ug/L	J	J	
Cadmium, Dissolved	DISSOLVED	7440-43-9	0.14	0.50	0.043	ug/L	J	J	
Chromium	TOTAL	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Chromium, Dissolved	DISSOLVED	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Cobalt	TOTAL	7440-48-4	0.31	0.40	0.12	ug/L	J	J	
Cobalt, Dissolved	DISSOLVED	7440-48-4	1.1	0.40	0.12	ug/L		J	E
Copper	TOTAL	7440-50-8	2.3	1.0	0.50	ug/L		J	E
Copper, Dissolved	DISSOLVED	7440-50-8	0.75	1.0	0.50	ug/L	J	J	E
Lead	TOTAL	7439-92-1	3.1	0.30	0.060	ug/L		J	E
Lead, Dissolved	DISSOLVED	7439-92-1	0.060	0.30	0.060	ug/L	U	UJ	E
Manganese	TOTAL	7439-96-5	85	2.5	1.2	ug/L		J	E
Manganese, Dissolved	DISSOLVED	7439-96-5	64	2.5	1.2	ug/L		J+	E, Q
Molybdenum	TOTAL	7439-98-7	1.1	1.0	0.45	ug/L			
Molybdenum, Dissolved	DISSOLVED	7439-98-7	1.1	1.0	0.45	ug/L			
Nickel	TOTAL	7440-02-0	2.6	1.0	0.40	ug/L			
Nickel, Dissolved	DISSOLVED	7440-02-0	2.6	1.0	0.40	ug/L			
Selenium	TOTAL	7782-49-2	0.58	2.0	0.58	ug/L	U	U	
Selenium, Dissolved	DISSOLVED	7782-49-2	0.58	2.0	0.58	ug/L	U	UJ	Q
Silver	TOTAL	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Silver, Dissolved	DISSOLVED	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Thallium	TOTAL	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Thallium, Dissolved	DISSOLVED	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Vanadium	TOTAL	7440-62-2	1.2	1.0	0.30	ug/L	B	J+	B, E
Vanadium, Dissolved	DISSOLVED	7440-62-2	1.0	1.0	0.30	ug/L	J B	UB	B
Zinc	TOTAL	7440-66-6	45	20	2.8	ug/L		J	E, Q
Zinc, Dissolved	DISSOLVED	7440-66-6	32	20	2.8	ug/L	B *	J+	B, L, E

Analysis Method 200.8

Sample Name		CC06_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-2		Sample Date:		08/26/2015 08:20			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	TOTAL	7440-36-0	2.4	1.0	0.40	ug/L			
Antimony, Dissolved	DISSOLVED	7440-36-0	0.53	1.0	0.40	ug/L	J	J	
Arsenic	TOTAL	7440-38-2	45	5.0	1.9	ug/L			
Arsenic, Dissolved	DISSOLVED	7440-38-2	4.4	5.0	1.9	ug/L	J	J-	Q
Barium	TOTAL	7440-39-3	7.0	2.0	0.14	ug/L			
Barium, Dissolved	DISSOLVED	7440-39-3	8.2	2.0	0.14	ug/L			
Beryllium	TOTAL	7440-41-7	8.5	0.40	0.15	ug/L			
Beryllium, Dissolved	DISSOLVED	7440-41-7	9.2	0.40	0.15	ug/L			
Cadmium	TOTAL	7440-43-9	55	0.50	0.043	ug/L			
Cadmium, Dissolved	DISSOLVED	7440-43-9	65	0.50	0.043	ug/L			
Chromium	TOTAL	7440-47-3	4.1	2.0	1.0	ug/L			
Chromium, Dissolved	DISSOLVED	7440-47-3	2.5	2.0	1.0	ug/L			
Cobalt	TOTAL	7440-48-4	110	0.40	0.12	ug/L			
Cobalt, Dissolved	DISSOLVED	7440-48-4	120	0.40	0.12	ug/L		J	E
Copper	TOTAL	7440-50-8	5800	1.0	0.50	ug/L	E	J	E
Copper, Dissolved	DISSOLVED	7440-50-8	6200	1.0	0.50	ug/L	E	J	E
Lead	TOTAL	7439-92-1	36	0.30	0.060	ug/L		J	E
Lead, Dissolved	DISSOLVED	7439-92-1	28	0.30	0.060	ug/L		J	E
Manganese	TOTAL	7439-96-5	34000	2.5	1.2	ug/L	E	J	E
Manganese, Dissolved	DISSOLVED	7439-96-5	36000	2.5	1.2	ug/L	E	J+	E, Q
Molybdenum	TOTAL	7439-98-7	3.3	1.0	0.45	ug/L			
Molybdenum, Dissolved	DISSOLVED	7439-98-7	0.65	1.0	0.45	ug/L	J	J	
Nickel	TOTAL	7440-02-0	65	1.0	0.40	ug/L			
Nickel, Dissolved	DISSOLVED	7440-02-0	68	1.0	0.40	ug/L			
Selenium	TOTAL	7782-49-2	6.1	10	2.9	ug/L	J	J	
Selenium, Dissolved	DISSOLVED	7782-49-2	2.9	10	2.9	ug/L	U	UJ	Q
Silver	TOTAL	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Silver, Dissolved	DISSOLVED	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Thallium	TOTAL	7440-28-0	0.33	0.20	0.10	ug/L		J	E
Thallium, Dissolved	DISSOLVED	7440-28-0	0.49	0.20	0.10	ug/L		J	E
Vanadium	TOTAL	7440-62-2	26	1.0	0.30	ug/L	B	J	E
Vanadium, Dissolved	DISSOLVED	7440-62-2	2.0	1.0	0.30	ug/L	B	J+	B
Zinc	TOTAL	7440-66-6	25000	20	2.8	ug/L	E	J	E, Q
Zinc, Dissolved	DISSOLVED	7440-66-6	27000	20	2.8	ug/L	E B *	J+	L, E

Analysis Method 200.8

Sample Name		TP04_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-3		Sample Date:		08/26/2015 10:03			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	TOTAL	7440-36-0	0.61	1.0	0.40	ug/L	J	J	
Antimony, Dissolved	DISSOLVED	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Arsenic	TOTAL	7440-38-2	9.1	5.0	1.9	ug/L			
Arsenic, Dissolved	DISSOLVED	7440-38-2	1.9	5.0	1.9	ug/L	U	UJ	Q
Barium	TOTAL	7440-39-3	8.7	2.0	0.14	ug/L			
Barium, Dissolved	DISSOLVED	7440-39-3	8.9	2.0	0.14	ug/L			
Beryllium	TOTAL	7440-41-7	5.9	0.40	0.15	ug/L			
Beryllium, Dissolved	DISSOLVED	7440-41-7	6.1	0.40	0.15	ug/L			
Cadmium	TOTAL	7440-43-9	59	0.50	0.043	ug/L			
Cadmium, Dissolved	DISSOLVED	7440-43-9	62	0.50	0.043	ug/L			
Chromium	TOTAL	7440-47-3	1.7	2.0	1.0	ug/L	J	J	
Chromium, Dissolved	DISSOLVED	7440-47-3	1.1	2.0	1.0	ug/L	J	J	
Cobalt	TOTAL	7440-48-4	100	0.40	0.12	ug/L			
Cobalt, Dissolved	DISSOLVED	7440-48-4	100	0.40	0.12	ug/L		J	E
Copper	TOTAL	7440-50-8	4100	1.0	0.50	ug/L	E	J	E
Copper, Dissolved	DISSOLVED	7440-50-8	4000	1.0	0.50	ug/L	E	J	E
Lead	TOTAL	7439-92-1	16	0.30	0.060	ug/L		J	E
Lead, Dissolved	DISSOLVED	7439-92-1	14	0.30	0.060	ug/L		J	E
Manganese	TOTAL	7439-96-5	29000	2.5	1.2	ug/L	E	J	E
Manganese, Dissolved	DISSOLVED	7439-96-5	29000	2.5	1.2	ug/L	E	J+	E, Q
Molybdenum	TOTAL	7439-98-7	0.93	1.0	0.45	ug/L	J	J	
Molybdenum, Dissolved	DISSOLVED	7439-98-7	0.45	1.0	0.45	ug/L	U	U	
Nickel	TOTAL	7440-02-0	59	1.0	0.40	ug/L			
Nickel, Dissolved	DISSOLVED	7440-02-0	58	1.0	0.40	ug/L			
Selenium	TOTAL	7782-49-2	5.5	10	2.9	ug/L	J	J	
Selenium, Dissolved	DISSOLVED	7782-49-2	2.9	10	2.9	ug/L	U	UJ	Q
Silver	TOTAL	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Silver, Dissolved	DISSOLVED	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Thallium	TOTAL	7440-28-0	0.24	0.20	0.10	ug/L		J	E
Thallium, Dissolved	DISSOLVED	7440-28-0	0.27	0.20	0.10	ug/L		J	E
Vanadium	TOTAL	7440-62-2	5.6	1.0	0.30	ug/L	B	J	E
Vanadium, Dissolved	DISSOLVED	7440-62-2	1.0	1.0	0.30	ug/L	J B	UB	B
Zinc	TOTAL	7440-66-6	20000	20	2.8	ug/L	E	J	E, Q
Zinc, Dissolved	DISSOLVED	7440-66-6	20000	20	2.8	ug/L	E B *	J+	L, E

Analysis Method 200.8

Sample Name		A68_082615					Matrix Type: Water		
Lab Sample Name:		680-116122-4		Sample Date:		08/26/2015 12:30			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	TOTAL	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Antimony, Dissolved	DISSOLVED	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Arsenic	TOTAL	7440-38-2	0.37	1.0	0.37	ug/L	U	U	
Arsenic, Dissolved	DISSOLVED	7440-38-2	0.37	1.0	0.37	ug/L	U	UJ	Q
Barium	TOTAL	7440-39-3	24	2.0	0.14	ug/L			
Barium, Dissolved	DISSOLVED	7440-39-3	24	2.0	0.14	ug/L			
Beryllium	TOTAL	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Beryllium, Dissolved	DISSOLVED	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Cadmium	TOTAL	7440-43-9	1.0	0.50	0.043	ug/L			
Cadmium, Dissolved	DISSOLVED	7440-43-9	1.0	0.50	0.043	ug/L			
Chromium	TOTAL	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Chromium, Dissolved	DISSOLVED	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Cobalt	TOTAL	7440-48-4	0.54	0.40	0.12	ug/L			
Cobalt, Dissolved	DISSOLVED	7440-48-4	0.60	0.40	0.12	ug/L		J	E, F1
Copper	TOTAL	7440-50-8	4.3	1.0	0.50	ug/L		J	E
Copper, Dissolved	DISSOLVED	7440-50-8	2.7	1.0	0.50	ug/L		J	E
Lead	TOTAL	7439-92-1	1.8	0.30	0.060	ug/L		J	E
Lead, Dissolved	DISSOLVED	7439-92-1	0.070	0.30	0.060	ug/L	J	J	E
Manganese	TOTAL	7439-96-5	1100	2.5	1.2	ug/L		J	E
Manganese, Dissolved	DISSOLVED	7439-96-5	1100	2.5	1.2	ug/L		J+	E, Q
Molybdenum	TOTAL	7439-98-7	1.7	1.0	0.45	ug/L			
Molybdenum, Dissolved	DISSOLVED	7439-98-7	1.7	1.0	0.45	ug/L			
Nickel	TOTAL	7440-02-0	2.1	1.0	0.40	ug/L			
Nickel, Dissolved	DISSOLVED	7440-02-0	1.9	1.0	0.40	ug/L			
Selenium	TOTAL	7782-49-2	0.58	2.0	0.58	ug/L	U	U	
Selenium, Dissolved	DISSOLVED	7782-49-2	0.58	2.0	0.58	ug/L	U	UJ	Q
Silver	TOTAL	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Silver, Dissolved	DISSOLVED	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Thallium	TOTAL	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Thallium, Dissolved	DISSOLVED	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Vanadium	TOTAL	7440-62-2	1.0	1.0	0.30	ug/L	J B	UJB	B, E
Vanadium, Dissolved	DISSOLVED	7440-62-2	1.0	1.0	0.30	ug/L	J B	UB	B
Zinc	TOTAL	7440-66-6	300	20	2.8	ug/L		J	E
Zinc, Dissolved	DISSOLVED	7440-66-6	290	20	2.8	ug/L	B *	J+	L, E

Analysis Method 200.8

Sample Name		A72_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-5		Sample Date:		08/26/2015 13:45			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	TOTAL	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Antimony, Dissolved	DISSOLVED	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Arsenic	TOTAL	7440-38-2	1.2	1.0	0.37	ug/L			
Arsenic, Dissolved	DISSOLVED	7440-38-2	0.37	1.0	0.37	ug/L	U	UJ	Q
Barium	TOTAL	7440-39-3	24	2.0	0.14	ug/L			
Barium, Dissolved	DISSOLVED	7440-39-3	24	2.0	0.14	ug/L			
Beryllium	TOTAL	7440-41-7	0.28	0.40	0.15	ug/L	J	J	
Beryllium, Dissolved	DISSOLVED	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Cadmium	TOTAL	7440-43-9	2.0	0.50	0.043	ug/L			
Cadmium, Dissolved	DISSOLVED	7440-43-9	2.0	0.50	0.043	ug/L			
Chromium	TOTAL	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Chromium, Dissolved	DISSOLVED	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Cobalt	TOTAL	7440-48-4	6.2	0.40	0.12	ug/L			
Cobalt, Dissolved	DISSOLVED	7440-48-4	6.0	0.40	0.12	ug/L		J	E
Copper	TOTAL	7440-50-8	60	1.0	0.50	ug/L		J	E
Copper, Dissolved	DISSOLVED	7440-50-8	17	1.0	0.50	ug/L		J	E
Lead	TOTAL	7439-92-1	5.9	0.30	0.060	ug/L		J	E
Lead, Dissolved	DISSOLVED	7439-92-1	0.45	0.30	0.060	ug/L		J	E
Manganese	TOTAL	7439-96-5	1400	2.5	1.2	ug/L		J	E
Manganese, Dissolved	DISSOLVED	7439-96-5	1400	2.5	1.2	ug/L		J+	E, Q
Molybdenum	TOTAL	7439-98-7	0.89	1.0	0.45	ug/L	J	J	
Molybdenum, Dissolved	DISSOLVED	7439-98-7	0.60	1.0	0.45	ug/L	J	J	
Nickel	TOTAL	7440-02-0	5.7	1.0	0.40	ug/L			
Nickel, Dissolved	DISSOLVED	7440-02-0	6.0	1.0	0.40	ug/L			
Selenium	TOTAL	7782-49-2	0.58	2.0	0.58	ug/L	U	U	
Selenium, Dissolved	DISSOLVED	7782-49-2	0.58	2.0	0.58	ug/L	U	UJ	Q
Silver	TOTAL	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Silver, Dissolved	DISSOLVED	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Thallium	TOTAL	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Thallium, Dissolved	DISSOLVED	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Vanadium	TOTAL	7440-62-2	1.3	1.0	0.30	ug/L	B	J+	B, E
Vanadium, Dissolved	DISSOLVED	7440-62-2	1.0	1.0	0.30	ug/L	J B	UB	B
Zinc	TOTAL	7440-66-6	710	20	2.8	ug/L		J	E, Q
Zinc, Dissolved	DISSOLVED	7440-66-6	690	20	2.8	ug/L	B *	J+	L, E

Analysis Method 200.8

Sample Name		GKMSW02_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-6		Sample Date:		08/26/2015 11:10			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	TOTAL	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Antimony, Dissolved	DISSOLVED	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Arsenic	TOTAL	7440-38-2	0.72	1.0	0.37	ug/L	J	J	
Arsenic, Dissolved	DISSOLVED	7440-38-2	0.37	1.0	0.37	ug/L	U	UJ	Q
Barium	TOTAL	7440-39-3	34	2.0	0.14	ug/L			
Barium, Dissolved	DISSOLVED	7440-39-3	34	2.0	0.14	ug/L			
Beryllium	TOTAL	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Beryllium, Dissolved	DISSOLVED	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Cadmium	TOTAL	7440-43-9	0.90	0.50	0.043	ug/L			
Cadmium, Dissolved	DISSOLVED	7440-43-9	0.74	0.50	0.043	ug/L			
Chromium	TOTAL	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Chromium, Dissolved	DISSOLVED	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Cobalt	TOTAL	7440-48-4	2.5	0.40	0.12	ug/L			
Cobalt, Dissolved	DISSOLVED	7440-48-4	2.4	0.40	0.12	ug/L		J	E
Copper	TOTAL	7440-50-8	18	1.0	0.50	ug/L		J	E
Copper, Dissolved	DISSOLVED	7440-50-8	3.2	1.0	0.50	ug/L		J	E
Lead	TOTAL	7439-92-1	2.4	0.30	0.060	ug/L		J	E
Lead, Dissolved	DISSOLVED	7439-92-1	0.14	0.30	0.060	ug/L	J	J	E
Manganese	TOTAL	7439-96-5	580	2.5	1.2	ug/L		J	E
Manganese, Dissolved	DISSOLVED	7439-96-5	570	2.5	1.2	ug/L		J+	E, Q
Molybdenum	TOTAL	7439-98-7	0.61	1.0	0.45	ug/L	J	J	
Molybdenum, Dissolved	DISSOLVED	7439-98-7	0.56	1.0	0.45	ug/L	J	J	
Nickel	TOTAL	7440-02-0	3.2	1.0	0.40	ug/L			
Nickel, Dissolved	DISSOLVED	7440-02-0	3.4	1.0	0.40	ug/L			
Selenium	TOTAL	7782-49-2	0.58	2.0	0.58	ug/L	U	U	
Selenium, Dissolved	DISSOLVED	7782-49-2	0.58	2.0	0.58	ug/L	U	UJ	Q
Silver	TOTAL	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Silver, Dissolved	DISSOLVED	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Thallium	TOTAL	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Thallium, Dissolved	DISSOLVED	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Vanadium	TOTAL	7440-62-2	1.0	1.0	0.30	ug/L	J B	UJB	B, E
Vanadium, Dissolved	DISSOLVED	7440-62-2	1.0	1.0	0.30	ug/L	J B	UB	B
Zinc	TOTAL	7440-66-6	280	20	2.8	ug/L		J	E, Q
Zinc, Dissolved	DISSOLVED	7440-66-6	190	20	2.8	ug/L	B *	J+	L, E

Analysis Method 200.8

Sample Name		A68_082615D					Matrix Type: Water		
Lab Sample Name:		680-116122-7		Sample Date: 08/26/2015 12:30					
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	TOTAL	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Antimony, Dissolved	DISSOLVED	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Arsenic	TOTAL	7440-38-2	0.45	1.0	0.37	ug/L	J	J	
Arsenic, Dissolved	DISSOLVED	7440-38-2	0.37	1.0	0.37	ug/L	U	UJ	Q
Barium	TOTAL	7440-39-3	24	2.0	0.14	ug/L			
Barium, Dissolved	DISSOLVED	7440-39-3	24	2.0	0.14	ug/L			
Beryllium	TOTAL	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Beryllium, Dissolved	DISSOLVED	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Cadmium	TOTAL	7440-43-9	1.1	0.50	0.043	ug/L			
Cadmium, Dissolved	DISSOLVED	7440-43-9	1.0	0.50	0.043	ug/L			
Chromium	TOTAL	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Chromium, Dissolved	DISSOLVED	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Cobalt	TOTAL	7440-48-4	0.54	0.40	0.12	ug/L			
Cobalt, Dissolved	DISSOLVED	7440-48-4	1.3	0.40	0.12	ug/L		J	E, F1
Copper	TOTAL	7440-50-8	4.3	1.0	0.50	ug/L		J	E
Copper, Dissolved	DISSOLVED	7440-50-8	2.5	1.0	0.50	ug/L		J	E
Lead	TOTAL	7439-92-1	1.7	0.30	0.060	ug/L		J	E
Lead, Dissolved	DISSOLVED	7439-92-1	0.074	0.30	0.060	ug/L	J	J	E
Manganese	TOTAL	7439-96-5	1100	2.5	1.2	ug/L		J	E
Manganese, Dissolved	DISSOLVED	7439-96-5	1100	2.5	1.2	ug/L		J+	E, Q
Molybdenum	TOTAL	7439-98-7	1.7	1.0	0.45	ug/L			
Molybdenum, Dissolved	DISSOLVED	7439-98-7	1.7	1.0	0.45	ug/L			
Nickel	TOTAL	7440-02-0	2.2	1.0	0.40	ug/L			
Nickel, Dissolved	DISSOLVED	7440-02-0	1.9	1.0	0.40	ug/L			
Selenium	TOTAL	7782-49-2	0.58	2.0	0.58	ug/L	U	U	
Selenium, Dissolved	DISSOLVED	7782-49-2	0.58	2.0	0.58	ug/L	U	UJ	Q
Silver	TOTAL	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Silver, Dissolved	DISSOLVED	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Thallium	TOTAL	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Thallium, Dissolved	DISSOLVED	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Vanadium	TOTAL	7440-62-2	1.0	1.0	0.30	ug/L	J B	UJB	B, E
Vanadium, Dissolved	DISSOLVED	7440-62-2	1.0	1.0	0.30	ug/L	J B	UB	B
Zinc	TOTAL	7440-66-6	310	20	2.8	ug/L		J	E
Zinc, Dissolved	DISSOLVED	7440-66-6	290	20	2.8	ug/L	B *	J+	L, E

Analysis Method 200.8

Sample Name		CC48_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-8		Sample Date:		08/26/2015 13:10			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	TOTAL	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Antimony, Dissolved	DISSOLVED	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Arsenic	TOTAL	7440-38-2	4.7	1.0	0.37	ug/L			
Arsenic, Dissolved	DISSOLVED	7440-38-2	0.37	1.0	0.37	ug/L	U	UJ	Q
Barium	TOTAL	7440-39-3	17	2.0	0.14	ug/L			
Barium, Dissolved	DISSOLVED	7440-39-3	14	2.0	0.14	ug/L			
Beryllium	TOTAL	7440-41-7	1.3	0.40	0.15	ug/L			
Beryllium, Dissolved	DISSOLVED	7440-41-7	1.4	0.40	0.15	ug/L			
Cadmium	TOTAL	7440-43-9	8.9	0.50	0.043	ug/L			
Cadmium, Dissolved	DISSOLVED	7440-43-9	9.0	0.50	0.043	ug/L			
Chromium	TOTAL	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Chromium, Dissolved	DISSOLVED	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Cobalt	TOTAL	7440-48-4	28	0.40	0.12	ug/L			
Cobalt, Dissolved	DISSOLVED	7440-48-4	29	0.40	0.12	ug/L		J	E
Copper	TOTAL	7440-50-8	400	1.0	0.50	ug/L		J	E
Copper, Dissolved	DISSOLVED	7440-50-8	400	1.0	0.50	ug/L		J	E
Lead	TOTAL	7439-92-1	32	0.30	0.060	ug/L		J	E
Lead, Dissolved	DISSOLVED	7439-92-1	19	0.30	0.060	ug/L		J	E
Manganese	TOTAL	7439-96-5	6200	2.5	1.2	ug/L	E	J	E
Manganese, Dissolved	DISSOLVED	7439-96-5	6300	2.5	1.2	ug/L	E	J+	E, Q
Molybdenum	TOTAL	7439-98-7	0.58	1.0	0.45	ug/L	J	J	
Molybdenum, Dissolved	DISSOLVED	7439-98-7	0.45	1.0	0.45	ug/L	U	U	
Nickel	TOTAL	7440-02-0	21	1.0	0.40	ug/L			
Nickel, Dissolved	DISSOLVED	7440-02-0	21	1.0	0.40	ug/L			
Selenium	TOTAL	7782-49-2	0.58	2.0	0.58	ug/L	U	U	
Selenium, Dissolved	DISSOLVED	7782-49-2	0.58	2.0	0.58	ug/L	U	UJ	Q
Silver	TOTAL	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Silver, Dissolved	DISSOLVED	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Thallium	TOTAL	7440-28-0	0.22	0.20	0.10	ug/L		J	E
Thallium, Dissolved	DISSOLVED	7440-28-0	0.20	0.20	0.10	ug/L		J	E
Vanadium	TOTAL	7440-62-2	3.8	1.0	0.30	ug/L	B	J	E
Vanadium, Dissolved	DISSOLVED	7440-62-2	1.0	1.0	0.30	ug/L	J B	UB	B
Zinc	TOTAL	7440-66-6	3400	20	2.8	ug/L		J	E, Q
Zinc, Dissolved	DISSOLVED	7440-66-6	3400	20	2.8	ug/L	B *	J+	L, E

Analysis Method 200.8

Sample Name		GKMSW01_082715				Matrix Type: Water			
Lab Sample Name:		680-116122-9		Sample Date:		08/27/2015 08:45			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	TOTAL	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Antimony, Dissolved	DISSOLVED	7440-36-0	0.40	1.0	0.40	ug/L	U	U	
Arsenic	TOTAL	7440-38-2	1.3	1.0	0.37	ug/L			
Arsenic, Dissolved	DISSOLVED	7440-38-2	0.51	1.0	0.37	ug/L	J	J	
Barium	TOTAL	7440-39-3	65	2.0	0.14	ug/L			
Barium, Dissolved	DISSOLVED	7440-39-3	59	2.0	0.14	ug/L			
Beryllium	TOTAL	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Beryllium, Dissolved	DISSOLVED	7440-41-7	0.15	0.40	0.15	ug/L	U	U	
Cadmium	TOTAL	7440-43-9	0.22	0.50	0.043	ug/L	J	J	
Cadmium, Dissolved	DISSOLVED	7440-43-9	0.060	0.50	0.043	ug/L	J	J	
Chromium	TOTAL	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Chromium, Dissolved	DISSOLVED	7440-47-3	1.0	2.0	1.0	ug/L	U	U	
Cobalt	TOTAL	7440-48-4	0.53	0.40	0.12	ug/L			
Cobalt, Dissolved	DISSOLVED	7440-48-4	1.0	0.40	0.12	ug/L		J	E
Copper	TOTAL	7440-50-8	3.5	1.0	0.50	ug/L		J	E
Copper, Dissolved	DISSOLVED	7440-50-8	0.77	1.0	0.50	ug/L	J	J	E
Lead	TOTAL	7439-92-1	5.9	0.30	0.060	ug/L		J	E
Lead, Dissolved	DISSOLVED	7439-92-1	0.060	0.30	0.060	ug/L	U	UJ	E
Manganese	TOTAL	7439-96-5	99	2.5	1.2	ug/L		J	E
Manganese, Dissolved	DISSOLVED	7439-96-5	41	2.5	1.2	ug/L	F1	J+	E, Q
Molybdenum	TOTAL	7439-98-7	1.3	1.0	0.45	ug/L			
Molybdenum, Dissolved	DISSOLVED	7439-98-7	1.2	1.0	0.45	ug/L			
Nickel	TOTAL	7440-02-0	3.2	1.0	0.40	ug/L			
Nickel, Dissolved	DISSOLVED	7440-02-0	2.2	1.0	0.40	ug/L			
Selenium	TOTAL	7782-49-2	0.58	2.0	0.58	ug/L	U	U	
Selenium, Dissolved	DISSOLVED	7782-49-2	0.58	2.0	0.58	ug/L	U	U	
Silver	TOTAL	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Silver, Dissolved	DISSOLVED	7440-22-4	0.10	1.0	0.10	ug/L	U	U	
Thallium	TOTAL	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Thallium, Dissolved	DISSOLVED	7440-28-0	0.10	0.20	0.10	ug/L	U	UJ	E
Vanadium	TOTAL	7440-62-2	2.4	1.0	0.30	ug/L	B	J+	B, E
Vanadium, Dissolved	DISSOLVED	7440-62-2	1.0	1.0	0.30	ug/L	J B	UB	B
Zinc	TOTAL	7440-66-6	51	20	2.8	ug/L	F1	J	E, Q
Zinc, Dissolved	DISSOLVED	7440-66-6	23	20	2.8	ug/L	B * F1	J+	B, L, E

Analysis Method 2320B-2011

Sample Name		RBEffluent_082615					Matrix Type: Water		
Lab Sample Name:		680-116122-1		Sample Date:		08/26/2015 12:53			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Alkalinity	T	STL00171	5.0	5.0	5.0	mg/L	U	U	
Sample Name		GKMSW04_082715					Matrix Type: Water		
Lab Sample Name:		680-116122-10		Sample Date:		08/27/2015 09:40			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Alkalinity	T	STL00171	120	5.0	5.0	mg/L			
Sample Name		GKMSW05_082715					Matrix Type: Water		
Lab Sample Name:		680-116122-11		Sample Date:		08/27/2015 09:10			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Alkalinity	T	STL00171	110	5.0	5.0	mg/L			
Sample Name		CC06_082615					Matrix Type: Water		
Lab Sample Name:		680-116122-2		Sample Date:		08/26/2015 08:20			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Alkalinity	T	STL00171	5.0	5.0	5.0	mg/L	U	U	
Sample Name		TP04_082615					Matrix Type: Water		
Lab Sample Name:		680-116122-3		Sample Date:		08/26/2015 10:03			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Alkalinity	T	STL00171	5.0	5.0	5.0	mg/L	U	U	
Sample Name		A68_082615					Matrix Type: Water		
Lab Sample Name:		680-116122-4		Sample Date:		08/26/2015 12:30			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Alkalinity	T	STL00171	33	5.0	5.0	mg/L			
Sample Name		A72_082615					Matrix Type: Water		
Lab Sample Name:		680-116122-5		Sample Date:		08/26/2015 13:45			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Alkalinity	T	STL00171	6.1	5.0	5.0	mg/L			

Analysis Method 2320B-2011

Sample Name GKMSW02_082615 **Matrix Type:** Water

Lab Sample Name: 680-116122-6 **Sample Date:** 08/26/2015 11:10

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Alkalinity	T	STL00171	29	5.0	5.0	mg/L			

Sample Name A68_082615D **Matrix Type:** Water

Lab Sample Name: 680-116122-7 **Sample Date:** 08/26/2015 12:30

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Alkalinity	T	STL00171	34	5.0	5.0	mg/L			

Sample Name CC48_082615 **Matrix Type:** Water

Lab Sample Name: 680-116122-8 **Sample Date:** 08/26/2015 13:10

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Alkalinity	T	STL00171	5.0	5.0	5.0	mg/L	U	U	

Sample Name GKMSW01_082715 **Matrix Type:** Water

Lab Sample Name: 680-116122-9 **Sample Date:** 08/27/2015 08:45

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Alkalinity	T	STL00171	130	5.0	5.0	mg/L			

Analysis Method 2340B-2011

Sample Name RBEffluent_082615 **Matrix Type:** Water

Lab Sample Name: 680-116122-1 **Sample Date:** 08/26/2015 12:53

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Hardness	TOTAL	STL00009	1000	3.3	3.3	mg/L			

Sample Name GKMSW04_082715 **Matrix Type:** Water

Lab Sample Name: 680-116122-10 **Sample Date:** 08/27/2015 09:40

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Hardness	TOTAL	STL00009	270	3.3	3.3	mg/L			

Sample Name GKMSW05_082715 **Matrix Type:** Water

Lab Sample Name: 680-116122-11 **Sample Date:** 08/27/2015 09:10

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Hardness	TOTAL	STL00009	250	3.3	3.3	mg/L			

Analysis Method 2340B-2011

Sample Name		CC06_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-2		Sample Date:		08/26/2015 08:20			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Hardness	TOTAL	STL00009	950	3.3	3.3	mg/L			
Sample Name		TP04_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-3		Sample Date:		08/26/2015 10:03			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Hardness	TOTAL	STL00009	950	3.3	3.3	mg/L			
Sample Name		A68_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-4		Sample Date:		08/26/2015 12:30			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Hardness	TOTAL	STL00009	140	3.3	3.3	mg/L			
Sample Name		A72_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-5		Sample Date:		08/26/2015 13:45			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Hardness	TOTAL	STL00009	210	3.3	3.3	mg/L			
Sample Name		GKMSW02_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-6		Sample Date:		08/26/2015 11:10			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Hardness	TOTAL	STL00009	150	3.3	3.3	mg/L			
Sample Name		A68_082615D				Matrix Type: Water			
Lab Sample Name:		680-116122-7		Sample Date:		08/26/2015 12:30			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Hardness	TOTAL	STL00009	140	3.3	3.3	mg/L			
Sample Name		CC48_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-8		Sample Date:		08/26/2015 13:10			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Hardness	TOTAL	STL00009	500	3.3	3.3	mg/L			

Analysis Method 2340B-2011

Sample Name		GKMSW01_082715					Matrix Type: Water		
Lab Sample Name:		680-116122-9		Sample Date:		08/27/2015 08:45			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Hardness	TOTAL	STL00009	260	3.3	3.3	mg/L			

Analysis Method 245.1

Sample Name		RBEffluent_082615					Matrix Type: Water		
Lab Sample Name:		680-116122-1		Sample Date:		08/26/2015 12:53			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	TOTAL	7439-97-6	0.080	0.20	0.080	ug/L	U	U	
Mercury	DISSOLVED	7439-97-6	0.080	0.20	0.080	ug/L	U	U	

Sample Name		GKMSW04_082715					Matrix Type: Water		
Lab Sample Name:		680-116122-10		Sample Date:		08/27/2015 09:40			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	DISSOLVED	7439-97-6	0.080	0.20	0.080	ug/L	U	U	
Mercury	TOTAL	7439-97-6	0.080	0.20	0.080	ug/L	U	U	

Sample Name		GKMSW05_082715					Matrix Type: Water		
Lab Sample Name:		680-116122-11		Sample Date:		08/27/2015 09:10			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	DISSOLVED	7439-97-6	0.080	0.20	0.080	ug/L	U	U	
Mercury	TOTAL	7439-97-6	0.080	0.20	0.080	ug/L	U	U	

Sample Name		CC06_082615					Matrix Type: Water		
Lab Sample Name:		680-116122-2		Sample Date:		08/26/2015 08:20			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	DISSOLVED	7439-97-6	0.080	0.20	0.080	ug/L	U	U	
Mercury	TOTAL	7439-97-6	0.080	0.20	0.080	ug/L	U	U	

Sample Name		TP04_082615					Matrix Type: Water		
Lab Sample Name:		680-116122-3		Sample Date:		08/26/2015 10:03			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	TOTAL	7439-97-6	0.080	0.20	0.080	ug/L	U	U	
Mercury	DISSOLVED	7439-97-6	0.080	0.20	0.080	ug/L	U	U	

Analysis Method 245.1

Sample Name A68_082615 **Matrix Type:** Water
Lab Sample Name: 680-116122-4 **Sample Date:** 08/26/2015 12:30

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	DISSOLVED	7439-97-6	0.080	0.20	0.080	ug/L	U	U	
Mercury	TOTAL	7439-97-6	0.080	0.20	0.080	ug/L	U	U	

Sample Name A72_082615 **Matrix Type:** Water
Lab Sample Name: 680-116122-5 **Sample Date:** 08/26/2015 13:45

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	DISSOLVED	7439-97-6	0.080	0.20	0.080	ug/L	U	U	
Mercury	TOTAL	7439-97-6	0.080	0.20	0.080	ug/L	U	U	

Sample Name GKMSW02_082615 **Matrix Type:** Water
Lab Sample Name: 680-116122-6 **Sample Date:** 08/26/2015 11:10

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	DISSOLVED	7439-97-6	0.080	0.20	0.080	ug/L	U	U	
Mercury	TOTAL	7439-97-6	0.080	0.20	0.080	ug/L	U	U	

Sample Name A68_082615D **Matrix Type:** Water
Lab Sample Name: 680-116122-7 **Sample Date:** 08/26/2015 12:30

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	DISSOLVED	7439-97-6	0.080	0.20	0.080	ug/L	U	U	
Mercury	TOTAL	7439-97-6	0.080	0.20	0.080	ug/L	U	U	

Sample Name CC48_082615 **Matrix Type:** Water
Lab Sample Name: 680-116122-8 **Sample Date:** 08/26/2015 13:10

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	TOTAL	7439-97-6	0.080	0.20	0.080	ug/L	U	U	
Mercury	DISSOLVED	7439-97-6	0.080	0.20	0.080	ug/L	U	U	

Sample Name GKMSW01_082715 **Matrix Type:** Water
Lab Sample Name: 680-116122-9 **Sample Date:** 08/27/2015 08:45

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	DISSOLVED	7439-97-6	0.080	0.20	0.080	ug/L	U	U	
Mercury	TOTAL	7439-97-6	0.080	0.20	0.080	ug/L	U	U	

Analysis Method 300.0

Sample Name RBEffluent_082615 **Matrix Type:** Water
Lab Sample Name: 680-116122-1 **Sample Date:** 08/26/2015 12:53

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	T	16887-00-6	0.37	0.50	0.20	mg/L	J	J	
Fluoride	T	16984-48-8	9.4	0.40	0.16	mg/L			
Nitrate as N	T	14797-55-8	0.023	0.050	0.023	mg/L	U	U	
Sulfate	T	14808-79-8	1700	50	20	mg/L			

Sample Name GKMSW04_082715 **Matrix Type:** Water
Lab Sample Name: 680-116122-10 **Sample Date:** 08/27/2015 09:40

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	T	16887-00-6	23	0.50	0.20	mg/L			
Fluoride	T	16984-48-8	0.37	0.10	0.040	mg/L			
Nitrate as N	T	14797-55-8	0.047	0.050	0.023	mg/L	J	J	
Sulfate	T	14808-79-8	120	5.0	2.0	mg/L			

Sample Name GKMSW05_082715 **Matrix Type:** Water
Lab Sample Name: 680-116122-11 **Sample Date:** 08/27/2015 09:10

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	T	16887-00-6	23	0.50	0.20	mg/L			
Fluoride	T	16984-48-8	0.35	0.10	0.040	mg/L			
Nitrate as N	T	14797-55-8	0.048	0.050	0.023	mg/L	J	J	
Sulfate	T	14808-79-8	120	5.0	2.0	mg/L			

Sample Name CC06_082615 **Matrix Type:** Water
Lab Sample Name: 680-116122-2 **Sample Date:** 08/26/2015 08:20

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	T	16887-00-6	0.34	0.50	0.20	mg/L	J	J	
Fluoride	T	16984-48-8	10	0.40	0.16	mg/L			
Nitrate as N	T	14797-55-8	0.023	0.050	0.023	mg/L	U H	UJ	H
Sulfate	T	14808-79-8	1800	50	20	mg/L			

Sample Name TP04_082615 **Matrix Type:** Water
Lab Sample Name: 680-116122-3 **Sample Date:** 08/26/2015 10:03

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	T	16887-00-6	0.60	0.50	0.20	mg/L			
Fluoride	T	16984-48-8	7.0	0.10	0.040	mg/L			

Analysis Method 300.0

Nitrate as N	T	14797-55-8	0.023	0.050	0.023	mg/L	U	U
Sulfate	T	14808-79-8	1500	50	20	mg/L		

Sample Name A68_082615 **Matrix Type:** Water

Lab Sample Name: 680-116122-4 **Sample Date:** 08/26/2015 12:30

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	T	16887-00-6	0.51	0.50	0.20	mg/L			
Fluoride	T	16984-48-8	0.53	0.10	0.040	mg/L			
Nitrate as N	T	14797-55-8	0.054	0.050	0.023	mg/L			
Sulfate	T	14808-79-8	100	5.0	2.0	mg/L			

Sample Name A72_082615 **Matrix Type:** Water

Lab Sample Name: 680-116122-5 **Sample Date:** 08/26/2015 13:45

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	T	16887-00-6	0.85	0.50	0.20	mg/L			
Fluoride	T	16984-48-8	0.55	0.10	0.040	mg/L			
Nitrate as N	T	14797-55-8	0.059	0.050	0.023	mg/L			
Sulfate	T	14808-79-8	200	5.0	2.0	mg/L			

Sample Name GKMSW02_082615 **Matrix Type:** Water

Lab Sample Name: 680-116122-6 **Sample Date:** 08/26/2015 11:10

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	T	16887-00-6	0.93	0.50	0.20	mg/L			
Fluoride	T	16984-48-8	0.38	0.10	0.040	mg/L			
Nitrate as N	T	14797-55-8	0.060	0.050	0.023	mg/L			
Sulfate	T	14808-79-8	120	5.0	2.0	mg/L			

Sample Name A68_082615D **Matrix Type:** Water

Lab Sample Name: 680-116122-7 **Sample Date:** 08/26/2015 12:30

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	T	16887-00-6	0.51	0.50	0.20	mg/L			
Fluoride	T	16984-48-8	0.46	0.10	0.040	mg/L			
Nitrate as N	T	14797-55-8	0.054	0.050	0.023	mg/L			
Sulfate	T	14808-79-8	100	5.0	2.0	mg/L			

Sample Name CC48_082615 **Matrix Type:** Water

Lab Sample Name: 680-116122-8 **Sample Date:** 08/26/2015 13:10

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
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Analysis Method 300.0

Chloride	T	16887-00-6	0.27	0.50	0.20	mg/L	J	J	
Fluoride	T	16984-48-8	2.0	0.10	0.040	mg/L			
Nitrate as N	T	14797-55-8	0.027	0.050	0.023	mg/L	J	J	
Sulfate	T	14808-79-8	670	25	10	mg/L			

Sample Name GKMSW01_082715 **Matrix Type:** Water

Lab Sample Name: 680-116122-9 **Sample Date:** 08/27/2015 08:45

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	T	16887-00-6	23	0.50	0.20	mg/L			
Fluoride	T	16984-48-8	0.36	0.10	0.040	mg/L			
Nitrate as N	T	14797-55-8	0.070	0.050	0.023	mg/L			
Sulfate	T	14808-79-8	120	5.0	2.0	mg/L			

Analysis Method 4500 H+ B-2011

Sample Name RBEffluent_082615 **Matrix Type:** Water

Lab Sample Name: 680-116122-1 **Sample Date:** 08/26/2015 12:53

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
pH	T	STL00204	3.38			SU	HF	J	H, E

Sample Name GKMSW04_082715 **Matrix Type:** Water

Lab Sample Name: 680-116122-10 **Sample Date:** 08/27/2015 09:40

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
pH	T	STL00204	7.90			SU	HF	J	H, E

Sample Name GKMSW05_082715 **Matrix Type:** Water

Lab Sample Name: 680-116122-11 **Sample Date:** 08/27/2015 09:10

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
pH	T	STL00204	8.04			SU	HF	J	H, E

Sample Name CC06_082615 **Matrix Type:** Water

Lab Sample Name: 680-116122-2 **Sample Date:** 08/26/2015 08:20

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
pH	T	STL00204	3.08			SU	HF	J	H, E

Sample Name TP04_082615 **Matrix Type:** Water

Lab Sample Name: 680-116122-3 **Sample Date:** 08/26/2015 10:03

Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
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Analysis Method 4500 H+ B-2011

pH	T	STL00204	3.41			SU	HF	J	H, E
Sample Name		A68_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-4		Sample Date:		08/26/2015 12:30			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
pH	T	STL00204	7.54			SU	HF	J	H, E
Sample Name		A72_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-5		Sample Date:		08/26/2015 13:45			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
pH	T	STL00204	6.60			SU	HF	J	H
Sample Name		GKMSW02_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-6		Sample Date:		08/26/2015 11:10			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
pH	T	STL00204	7.51			SU	HF	J	H, E
Sample Name		A68_082615D				Matrix Type: Water			
Lab Sample Name:		680-116122-7		Sample Date:		08/26/2015 12:30			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
pH	T	STL00204	7.58			SU	HF	J	H, E
Sample Name		CC48_082615				Matrix Type: Water			
Lab Sample Name:		680-116122-8		Sample Date:		08/26/2015 13:10			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
pH	T	STL00204	3.34			SU	HF	J	H, E
Sample Name		GKMSW01_082715				Matrix Type: Water			
Lab Sample Name:		680-116122-9		Sample Date:		08/27/2015 08:45			
Analyte	Analysis Fraction	CAS No	Result Value	Sample Adjusted CRQL	Sample Adjusted MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
pH	T	STL00204	8.06			SU	HF	J	H, E